Content Providers

105

SEMOTUS

Requests
Results

101

104

Requests
Results

103

Requests
Results

102

106

Account Maintenance

on device

www.mygmpro.com

Fig. 1

Account Maintenance

201

101

Web Browser

Global Market Pro^{SM}
Account Maintenance

203

202

HTTP

Presentation Layer

User
Profile
Interface

204

205

Client
Tier

Middle
Tier

Business Logic Layer

ADO/
ODBC

User Agent

Data Tier

Data Layer

User Profile
DB

102

206

SEMOTUS

Fig. 2a

Account Maintenance

201

101

Web Browser

Global Market Pro^{SM}
Account Maintenance

203

202

HTTP

Presentation Layer

User Profile Interface

204

205

Client Tier

Middle Tier

Business Logic Layer

ADO/ODBC

User Agent

Data Tier

Data Layer

User Profile DB

102

206

SEMOTUS

Fig. 2a

Fig. 2b

Fig. 2c

GMPro Account Maintenance

301

**Please enter your
ACCOUNT NUMBER and PASSWORD**

Account: Password:

303

✓ Save account number and password.

302

| LOGIN | RESET |

Forgot your password?

305

Enter your **Account Number** and click Send Password.
We will send your password directly to you pager within minutes.
Please make sure your pager is **turned on!**

304

Enter Account #

| SEND PASSWORD |

306   307

Global Market Pro

Intraday Portfolios
Market Alerts
Dow Jones News
Online User Guide
Today's Alerts
Alert Limits
Service Status
Test Pager

308

309

Edit your portfolio settings below.
(Click on the Title)

Add New Portfolio   My Templates

#	TITLE	DELETE
1	Portfolio One	
2	Portfolio Two	

Update Portfolio   Reset

310

Fig. 3a

Intraday Portfolio
Edit your portfolio settings below.

— 313

Alert Settings:

Alert Title: | Stocks |

Symbol	Alias	Display template
CMB	CMB	Default Template ▼
MER	MER	Default Template ▼
GS	GS	Default Template ▼
MWD	MWD	Default Template ▼
MSFT.O	MSFT.O	Default Template ▼
CSCO.O	CSCO.O	Default Template ▼
MRK	MRK	Default Template ▼
		Default Template
		(USER)Currency Bid/Off
		(USER)My Equities
		(GMP)CROSS FX BID/ASK
		(GMP)CROSS FX HI/LO
		(GMP)EQUITIES HI/LO
		(GMP)EURO $

Update
Portfolio   Reset

— 312

— 311

Time Settings:

◯ Every Day ◯ Mon-Fri only
◯ Once a day
◯ Recurring   at [0 ▼] : [00 ▼] [am ▼]
       Each [0 ▼] Hour [00 ▼] Minute

Starting at: [0 ▼] : [00 ▼] [am ▼]
Ending at: [0 ▼] : [00 ▼] [am ▼]

◉ On-Demand Only

Fig. 3b

Add your template settings below:

Template Name:　Equities

Display Heading

Field Number　　Add >>

　　　　　　　　<< Remove

Submit

Fig. 3c

Edit your template settings below:

Template Name:　Equities

Display Heading

Field Number　　Add >>

　　　　　　　　<< Remove

Last Value
Net Change
HIGH_1
LOW_1
ACVOL_1

Submit

Fig. 3d

Default Display Templates

Type of RICs (Example RICs)	Fields Displayed on the Default Template
NASDAQ Equities (MSFT.O)	NASDAQ Market Indicator, Tick Indicator, Last, Net Change, Bid, Ask, High, Low, Accumulated Volume
North American Equities (IBM.N)	Tick Indicator, Last, Net Change, Bid, Ask, High, Low, Accumulated Volume
International Monetary Market Futures (EDH1)	Contract Name, Bid Tick, Bid, Offered, High, Low, Settle (displayed in 32nds)
West Texas Crude & Oils (WTC)	Buy, Sell, Terms (of Delivery), Delivery Date
Spot Energy (AL-ALLOY)	Bid Tick, Bid, Offered
LIBOR Rates (LIUSD3MD=)	Instrument Name, Tick Indicator, Latest Rate
London Int. Futures & European Futures (FGBLH1)	Contract Name, Tick Indicator, Latest, Net Change, High, Low, Settle

401

402

403

Fig. 4a

Pre-Defined
Display Templates

Template Name	Instrument Type Use	Fields Displayed
GMPro1	Commodities	BID, ASK
GMPro2	Commodities (no text header)	BID TICK, BID, ASK
GMPro3	Currencies	BID, ASK, HIGH, LOW
GMPro4	Currencies	BID, ASK
GMPro5	Currencies	HIGH, LOW
GMPro6	Currencies (no text header)	BID TICK, BID, ASK
GMPro7	Equities	TICK INDICATOR, LAST, NET CHANGE
GMPro8	Futures (International) (no text header)	CONTRACT NAME, TICK INDICATOR, LAST, NET CHANGE, HIGH, LOW
GMPro9	Futures (North American in 32nds) (no text header)	CONTRACT NAME, BID TICK. BID, ASK, HIGH, LOW

Fig. 4b

Pre-Defined
Display Templates

Template Name	Instrument Type Use	Fields Displayed
GMPro10	Futures (North American) (no text header)	CONTRACT NAME, BID TICK, BID, ASK, HIGH, LOW
GMPro11	GovPX	BID TICK, BID, ASK, YIELD, NET YIELD
GMPro12	GovPX (with Net Yield) (no text header)	BID TICK, BID, ASK, YIELD, NET YIELD
GMPro13	GovPX (w/o Net Yield) (no text header)	BID TICK, BID, ASK, YIELD
GMPro14	Indices (no text header)	TICK INDICATOR, LAST, NET CHANGE
GMPro15	IRS (no text header)	BID TICK, BID, OFFERED
GMPro16	Rates (International) (no text header)	TICK INDICATOR, LATEST RATES, CONTRIBUTOR
GMPro17	Rates (USA) (no text header)	CONTRACT NAME, TICK, LATEST RATE
GMPro18	Treasury	BID, OFFERED, YIELD

Fig. 4c

Custom Display Templates

Add your template settings below:

Template Name: Equities

Display Heading

Field Number   Add >>

                << Remove

Submit

Fig. 4d

Edit your template settings below:

Template Name: Equities

Display Heading

Field Number   Add >>

                << Remove

Last Value
Net Change
HIGH_1
LOW_1
ACVOL_1
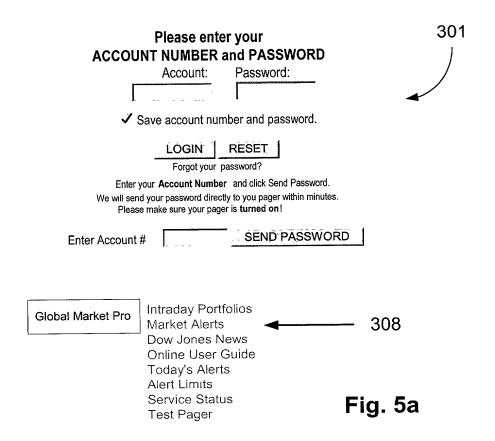
Submit

Fig. 4e

Internet Account Maintenance

Please enter your
ACCOUNT NUMBER and PASSWORD

Account: Password:

301

✓ Save account number and password.

LOGIN │ RESET │

Forgot your password?

Enter your **Account Number** and click Send Password.
We will send your password directly to you pager within minutes.
Please make sure your pager is **turned on**!

Enter Account #   SEND PASSWORD │

Global Market Pro	Intraday Portfolios

Market Alerts   ◄──────── 308
Dow Jones News
Online User Guide
Today's Alerts
Alert Limits
Service Status   **Fig. 5a**
Test Pager

Market Alerts

Add New Filters   501

RIC: MSFT.O   **Alias** | Microsoft |

#	**Filter Type**	**Filter Value**
1.	% Change Alert on Last ▼	1
2.	% Change Alert on Last ▼	20
3.	% Change Alert on Last ▼	
4.	% Change Alert on Last ▼	

Fig. 5b

GMPro - On-Demand Advanced - Market Alerts

To add New Market Alerts enter a RIC in the box

and click here **NEW ENTRY**

602

601

RIC	Alias		Delete
	Filter Type	Value	
MSFT.O	MIcrosoft		⌐
	%Chg Alrt on Last	1	
	%Chg Alrt on Bid	20	

Update Portfolio   Reset

603

Fig. 6a

Yesterday's Alerts

Today's Alerts GMPro On-Demand

604

Date: Friday, February 2, 2001

Number of alerts today to your GMPro On-Demand service:

Time	Message	Status
6:15:09 AM	Microsoft % Chg-(22) MMQ +63 3/8 NChg -1 1/8 B	OK

Fig. 6b

Market Alert - Filter Types

Financial Instrument	RIC Example	Market Alert Filter Types
Equities	MSFT.O	% Change Alert on Bid % Change Alert on Last Change Alert on Bid Change Alert on Last High Alert on Bid High Alert on Last High Alert on Trade Volume Low Alert on Bid Low Alert on Last
Futures	EDZ1	% Change Alert on Last % Change Alert on Yield Change Alert on Last Change Alert on Yield High Alert on Last High Alert on Yield Low Alert on Last Low Alert on Yield
Treasuries	US30YT=PX	% Change Alert on Last % Change Alert on Yield % Change Alert on BTYSPD Change Alert on Last Change Alert on Yield Change Alert on BTYSPD High Alert on Last High Alert on Yield High Alert on BTYSPD Low Alert on Last Low Alert on Yield Low Alert on BTYSPD Change Alert on % 1 Day Chg

Fig. 7a

Market Alert - Filter Types (continued)

| Financial Instrument	RIC Example	Market Alert Filter Types
Indices	.DJI	% Change Alert on Last Change Alert on Last High Alert on Last Low Alert on Last Volume Alert on Volume
Interest Rate SWAPS	USD10YTS=ICAP	% Change Alert on Last Change Alert on Last High Alert on Last Low Alert on Last
International Futures	FGBLU1	% Change Alert on Last Change Alert on Last High Alert on Last Low Alert on Last Open
Rates (such as LIBOR)	LIUSD3MD=	% Change Alert on Last Change Alert on Last High Alert on Last Low Alert on Last
Spot Rates (Currencies & Commodities)	JPY=	% Change Alert on Bid Change Alert on Bid High Alert on Bid Low Alert on Bid
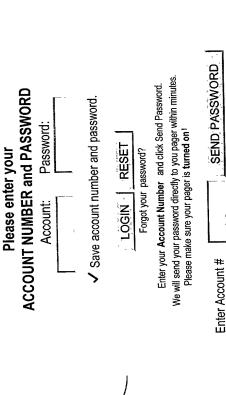
Fig. 7b

Alert Type	Alert Message Identifier
Change	Chg.
Close	C
Volume	Vol.
High	H
Low	L
Open	O
Percentage Change	%Chg

801
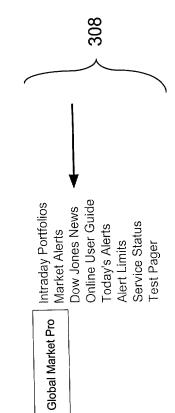
Alert Message Identifiers
One-Way Pager

Fig. 8

Internet Account Maintenance

Please enter your
ACCOUNT NUMBER and PASSWORD

Account: _____ Password: _____

✓ Save account number and password.

[LOGIN] [RESET]

Forgot your password?

Enter your **Account Number** and click Send Password.
We will send your password directly to you pager within minutes.
Please make sure your pager is **turned on!**

Enter Account # _____ [SEND PASSWORD]

301

Global Market Pro

Intraday Portfolios
Market Alerts
Dow Jones News
Online User Guide
Today's Alerts
Alert Limits
Service Status
Test Pager

308

Fig. 9a

CAPITAL MARKET REPORT/ ECONOMIC REPORT
SETUP SCREEN

News Query Name:

1) Set News Code Criteria:

○ All Headlines for all newscodes; OR
● Select News Code(s)

Commonly used news codes

N/BON - BOND
NEWS
N/CAL -
CALENDARS
N/COB - CORP.

◄

ADD>

►

Enter Known News Codes Directly Below:

N/EMI, N/IEI,G/
FED

News Code Lookup

2) Set Headline Keyword/Ticker/Symbol Criteria:

Keyword(s):
Ticker

Symbol(s):
Ticker Symbol Search

3) Set Headline Time-Stamp Criteria:

● All Headlines in previous 48 hours
○ All Headlines since :

1 ▼ : 00 ▼ AM ▼

*Note: All time-stamps are Eastern
Standard Time

901

Fig. 9b

GMPro - On-Demand Advanced - Dow Jones News

Market Talk Setup Screen

Request Name: [   ]

1) Set Headline Keyword/Ticker Symbol Criteria: (Please separate the keywords and symbols with comma or space.)

Keyword(s): [   ]

Ticker Symbol(s): [   ]

Ticker Symbol Search

2) Set Headline Time-Stamp Criteria:

⦿ All Headlines in previous 48 hours

○ All Headlines since: [1 ▾] : [00 ▾] [AM ▾]

[Submit]

Fig. 9c

GMPro 2.0 - RIM 957 Screen Flow

GLOBAL MARKET PRO

AM 11:17
Mon MAR 12

(a)

GMPro: Main Menu

Login

(b)

GMPro: Login
Account: 6045551212
Password: ****

Hide Menu
Back
Send Login

(c)

GMPro: Main Menu

REUTER'S DATA

(d)

GMPro: Reuters Services
Get RICs...
Intraday Portfolios...
Market Alerts...

(e)

GMPro: Reuters RICs
Enter RICs (RIC1 RIC2...): dlk.a

(f)

Fig. 10a

GMPro: | Hide Menu
dlk.a | Back
-2 11/16 NChg | Main
B 2 10/16 A | Save Message
HI 2 7/8 LO 2 5/8 | Add to Intraday Portfolio
V 44700 |

(g)

GMPro: Reuters | Hide Menu
Portfolio 1 | Back
Portfolio 2 | Main
Portfolio 3 | Refresh Portfolios
Portfolio 5 | Add New Portfolio
Portfolio 6 | Get Data
| Edit Portfolio
| Delete Portfolio

(h)

GMPro: Reuters | Hide Menu
Portfolio 1 | Back
Portfolio 2 | Main
Portfolio 3 | Refresh Portfolios
Portfolio 5 | Add New Portfolio
Portfolio 6 | Get Data
| Edit Portfolio
| Delete Portfolio

(i)

GMPro: Reuters | Hide Menu
Portfolio 1 | Back
Portfolio 2 | Main
Portfolio 3 | Refresh Portfolios
Portfolio 5 | Add New Portfolio
Portfolio 6 | Get Data
| Edit Portfolio
| Delete Portfolio

(j)

GMPro: Add Portfolio
Portfolio Name:
Time Settings: On Demand
New Symbols

(k)

GMPro: Market Alert | Hide Menu
DLK A | Back
| Main
| Refresh Alerts
| Add New Alert
| Edit Alert
| Delete Alert

(l)

Fig. 10b

GMPro: Add Alerts | Hide Menu
Enter RIC: dlka,JPY= | Back
Main
Submit

(m)

GMPro: DLKA - Filters | Hide Menu
Back
Main
Save Alert & Back
Add Filter

(n)

GMPro: Add Filter | Hide Menu
Filter: % Change on | Back
Value: 10 | Main
Save & Back

(o)

GMPro: dlka - Filters | Hide Menu
% Change on | Back
Value: 10 | Main
Save Alert & Back
Add Filter
Edit Filter
Delete Filter

(p)

GMPro: FX Bullets
Get Most Recent
Get Historical By Keywords...

(q)

GMPro: FX Historical | Hide Menu
Enter Keywords: (key1 ...) | Back
exchange | Main
Get Data

(r)

Fig. 10c

(s)

GMPro: News (1 of 7) ▶

13:34 EST 03/12 GREENSPAN GOES
BEFORE GORE'S COLUMBIA
JOURNALISM CLASS MAR 21>--Fed
Chairman to Discuss Relationship
Between the Media and the
Financial Markets -- Class
Expected to be Closed to the
Working Press WASHINGTON
(MktNews) - Federal Reserve
Chairman Alan Greenspan is
scheduled to appear before
Columbia University journalism
students March 21, as part of

(t)

GMPro: DJ News | Hide Menu

Portfolio 1 | Back
Portfolio 2 | Refresh Portfolios...
Portfolio 3 | Quick Query...
Portfolio 5
Portfolio 6

(u)

GMPro: Quick Query | Hide Menu

New Query | Back
Enter Symbols: | Main
Enter Keyword: excha | Get Headlines
| Save to Portfolio.

(v)

GMPro: Quick Query | Hide Menu

*DJ 'News Nova Sco | Back
DJ UN Forces Move | Main
DJ BOTCC Enhances | Get More
DJ Key Interest Rates | Get Story
DJ MARKET TALK/AU: Full Headline
DJ MARKET TALK: Nomura Economists...
DJ Australia PM: Econ Fundamental...
DJ SLUG Investments Tuesday $58...
*DJ CRB Spot Idx Close 218.11 -2...
DJ Agency Insurance for March 14; all is...
DJ Ukraine To Set Regular Wage Prices...
DJ MARKET TALK/AU: Aussie PM Kicks...
DJ MARKET TALK/AU: USD Sees new...

(w)

GMPro: Story (1 of 7) | Hide Menu

13:34 EST 03/12 GREE | Back
BEFORE GORE'S COL | Main
JOURNALISM CLASS M | Get More
Chairman to Discuss Re | Save
Between the Media and the
Financial Markets -- Class
Expected to be Closed to the
Working Press WASHINGTON
(MktNews) - Federal Reserve
Chairman Alan Greenspan is
scheduled to appear before
Columbia University journalism
students March 21, as part of

(x)

GMPro: Settings

Country | US
Gateway 1: 5000795
Gateway 2: 101882
Gateway 3: 101882
Timeout (seconds): 120
Push Notify | Tone
Pull Notify | Silent

Fig. 10d

GMPro: Account Settings
Service Status: ACTIVE
Change Password
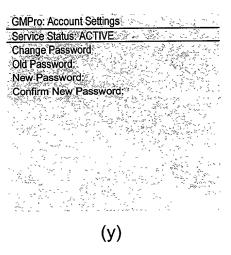Old Password:
New Password:
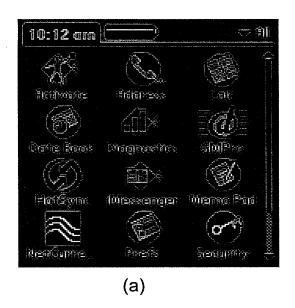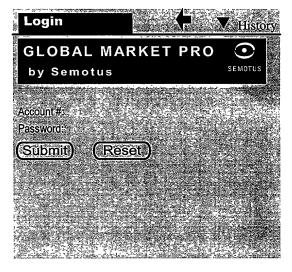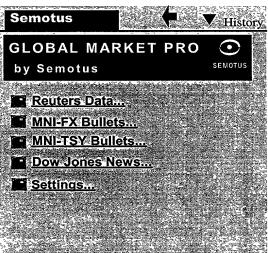Confirm New Password:

(y)

Fig. 10e

Global Market Pro
Please enter
account:
_____
OK

(a)

Global Market Pro
1▶Reuters Data
2 MNI-FX Bullets
3 MNI-TSY Bullets
4 Dow Jones News
5 Settings
_____
OK

(b)

Enter Instruments
(RIC1, RIC2....)
_____
OK   ALPHA

(c)

Microsoft
MMQ
+ 51 11/16
NChg -1 13/16
B 51 5/8
A 51 11/16
_____
Main   Done

(d)

MNI- Bullets:
1 Get Most Recent
2▶Get by Keyword
3 Get by Time
_____
OK

(e)

Enter minutes:
_____
OK

(f)

(02:34 EST 01/16)
EUROPE CAR SALES:
Despite the 8.2%
y/y drop in car
sales in Dec.,
the full year
_____
Main   Done

(g)

DJN Portfolio:
1▶Stocks
2 InterestRates
3 Refresh
_____
OK   Back

(h)

DJN Headlines:
(1/1827)DJ
Summo/Matrix -2:
Talks To Take
'Significant'
Stake >T.SMA
_____
Next   Done

(i)

DJN Quick Query
▶[Symbol:]
[Keyword:]
[Run Query]
_____
Symbol SaveQuery

(j)

DJN Quick Query
▶[Symbol:MSFT]
[Keyword:]
[Run Query]
_____
Symbol SaveQuery

(k)

DJN Headlines:
[1/7] DJ High-Tech
Cos, US Govt Team
Up to Combat
Hacking
_____
Next   Done

(l)

Fig. 11

(a)

GLOBAL MARKET PRO ⊙
by Semotus
SEMOTUS

Account #
Password
(Submit) (Reset)

(b)

GLOBAL MARKET PRO ⊙
by Semotus
SEMOTUS

■ Reuters Data...
■ MNI-FX Bullets...
■ MNI-TSY Bullets...
■ Dow Jones News...
■ Settings...

(c)

GLOBAL MARKET PRO ⊙
by Semotus
SEMOTUS

■ (Access Portfolio)
■

(Get RICs)

(d)

GLOBAL MARKET PRO ⊙
by Semotus
SEMOTUS

Please choose one title:
▼ Portfolio 1
Portfolio 2
(Submit) (Clear)

(e)

Fig. 12a

Semotus　　◀ ▼History

GLOBAL MARKET PRO ◉
by Semotus
SEMOTUS

■ (Access Portfolio)

■ MSFT.O

(Get RICs)

(f)

Get RICs　　◀ ▼History

GLOBAL MARKET PRO ◉
by Semotus
SEMOTUS

MSFT.O MMQ + 52 15/16 NChg 0 6/16
B 53 2/8 A53 3/8
HI 54 7/8 LO 52 9/16
V 3481900

(g)

Market News　　◀ ▼History

MARKETNEWS
INTERNATIONAL

■ (Get Most Recent)

■ Keyword: market
(Get by Keyword)

■ Last _____ Minutes
(Get by Time)

(h)

Market News　　◀ ▼History

[19:25 EST 01/17]DOLLAR-YEN climbed
to a year high above Y119.60 on the
back of buy orders in euro-yen. Along
the way up from just under Y119.00,
stops were triggered between
Y119.20 and Y119.30. The target
level is at Y120.00<EOM>
[19:21 EST 01/17] EURO-YEN is
regrouping just under Y112.00 after
buying from Japanese names at the
Tokyo open probably on demand for
the morning fix pushed from Y11.40.
So far good sellers have come into the

(i)

Semotus　　◀ ▼History

GLOBAL MARKET PRO ◉
by Semotus
SEMOTUS

■ Access Portfolios
■ Quick Query
■ GMPro Main

(j)

Semotus　　◀ ▼History

GLOBAL MARKET PRO ◉
by Semotus
SEMOTUS

My portfolio:

■ Portfolio 1
■ Portfolio 2
■ Portfolio 3
■ Portfolio 4

(k)

Fig. 12b

LOGOUT TEST 888 GO

Semotus ▶History

GLOBAL MARKET PRO
by Semotus   SEMOTUS

New Query:
■ Query Name:
(Save Query)

■ GMPro Main

(m)

Semotus ▶History

GLOBAL MARKET PRO
by Semotus   SEMOTUS

New Query:
■ Symbol
■ Keyword
(Run Query) (Save Query)

■ GMPro Main

(l)

Semotus ▶History

GLOBAL MARKET PRO
by Semotus   SEMOTUS

GMPro Settings:
■ New User Login

(n)

Fig. 12c

EP 1 090 368 B1

GMPro: Login

Account
Password

Login   Back
Enter Login

(a)

GMPro: Main Menu

Reuters Services ...
MNI-FX-Bullets ...
MNI-TSY-Bullets ...
Login ...

Next   Exit
Select Menu

(b)

GMPro: Reuters Services

Access Portfolios ...
Get RICs ...

Next   Exit
Select Menu

(c)

GMPro: Reuters Portfolio

Bond Futures
Currency Bid / Ask
Dealing 2000 - 2
Equities
Euro Futures
Euro Yen Aussie
EURODOLLARS
European Futures

Get Data   Back   Refresh
Select Menu

(d)

GMPro: Main Menu

Your request has
been sent to
Semotus.

OK

Get Data

(e)

GMPro: TSY-Bullets

Get Most Recent
Get by Keyword ...
Get by Time ...

Get Data   Back
Select Menu

(f)

GMPro: FX-Bullets

Get Most Recent ...
Get by Keyword ...
Get by Time ...

Get Data   Back
Select Menu

(g)

GMPro:

Enter Keyword:

market,exchange rates

Get Data   Back
Enter Data

(h)

New Message 1 of 3
Email Host@mustang.semotus.com
Email Host Response: 10s and OTR
10s. Japanese accts were strong
buyers of 5Y and 10Y agencies. -
Treasuries entered NY time in
positive territory. sources noted some
early morning curve unwinds, selling

O
K

Enter Data

(i)

Fig. 13